BULL. BOT. SURV. INDIA
Vol. 3, Nos. 3 & 4: pp. 403-405, 1961

**ADDITIONS TO THE FLORA OF MOUNT ABU IN RAJASTHAN

K. C. KANODIA AND U. R. DESHPANDE
Botanical Survey of India, Western Circle, Poona

ABSTRACT

The present paper gives the occurrence, distribution and habitat of 45 species of plants not reported by earlier workers from Mt. Abu area, comprising 41 species of Angiosperms (excluding Gramineae), 3 species of ferns and 1 species of liverwort. Some of these plants are common to the Himalayas and the hills of south India. *Rumex crispus* Linn. has been recorded for the first time in India.

Details regarding geology, climate and previous work on Mt. Abu has been discussed in the earlier papers by Raizada[1] and Jain[2]. Though the list of 469 species of angiosperms from Mt. Abu and surroundings by Jain[2] looks quite exhaustive, our careful study of the area has brought out several species which have not been reported earlier from the area, namely, 41 species of angiosperms which include one species of Cyperaceae, not recorded by Chavan and Sabins[3]. There are still several species of grasses newly collected from the area which will be reported separately. Similarly, Bapna[4] has listed 24 species of bryophytes, to which we add one more species of liverwort. Raizada[1] and Bir and Verma[5] have reported 19 species of Pteridophytes to which we add three more species of ferns. It is interesting to record here that these newly recorded cryptogamic species and some of the angiosperms which are common in the lower altitudes of the Himalayas and also on the favourable hilltops of South India, grow along moist and shady spots of Mt. Abu.

The vegetation of the major part of the area under study comprises of tropical deciduous forests on the hills and other exposed slopes. At several places in the lower slopes of the valleys and thickets of the forests on way to Gomukh and Gurusikhar where the conditions are cooler, isolated pockets of semi-evergreen forests occur. In the drier and completely exposed and eroded areas thorny scrubs are met with. Along the shady roadsides and moist grassy meadows and near puddles and fields herbaceous flora dominates.

The following enumeration is based on a careful study of the different collections of the herbarium of the Botanical Survey of India, Western Circle, Poona, with a subsequent scrutiny at the Central National Herbarium, Calcutta, particularly of the hitherto unrecorded species. Names marked with an asterisk indicate that they are being recorded for the first time for Rajasthan.

**The paper was read at the Botany Section of the 49th Session of the Indian Science Congress, Cuttack, January 1962.

ENUMERATION

MARCHANTIACEAE

***Plagiochasma intermedium** Ldbg. & G.

On the way to Devalia tank, *Rolla* 67239. Small thallus on rocks near a fresh water stream. Scales purple. The identification was confirmed by Dr. R. S. Chopra, Punjab University.

THELYPTERIDACEAE

***Dryopteris crenata** (Forsk.) O. Kuntze *Lastrea crenata* Bed.

Dilwara Roadside, *Tatake* 46502. Common fern in moist places on the hillslopes.

DENNSTAEDTIACEAE

***Athyrium hohenackerianum** (Kze.) Moore

On the way to Kodra Dam, *Rolla* 66573 ; Palanpur point, *Vasavada* 22597. Small glaucous fern on the hill slopes in moist places. Common.

***Diplazium silvaticum** (Bory) Sw.

Anadra point, *Puri* 56782. 30-45 cms. tall fern in deep soil, among the rock bogs.

CARYOPHYLLACEAE

Silene conoidea Linn.

Dilwara roadside fields, *Jain* 62168. Erect, annual, 30 cms. tall herb in conical fruits. Flower pink-red, rare.

***Stellaria media** Linn.

Mt. Abu roadside nala, *Jain* 82096. A small 15-30 cms. spreading herb in moist places.

MALVACEAE

***Abutilon ramosum** Guill. & Perr.

Mt. Abu to Abu Road, *Rolla* 66696. 60-90 cms. tall shrub in fruits. Frequent.

***Sida glutinosa** Cav.
On the way to Devalia tank, *Rolla* 66650. An undershrub 30-60 cms. in yellow flowers.

TILIACEAE

***Grewia glabra** Bl. *G. laevigata* Auct. plur. non Vahl
Abu Road to Mt. Abu, 9th mile, *Rolla* 66502. A 3.04 m. tall trees in fruits.

***Triumfetta annua** Linn.
Mt. Abu to Abu road, *Rolla* 66674. 60 cms. herb in globular, spiny fruits. Common on hill slopes.

PAPILIONACEAE

Alysicarpus bupleurifolius DC.
On the way from Kodra Dam, *Rolla* 66590. 30-60 cms. tall herb in fruits on the hill slopes.

***A. nummularifolius** (Linn.) DC. *A. vaginalis* DC. var. *nummularifolius* Baker
On the way to Kodra Dam, *Rolla* 66535. A small sub-erect herb with dense racemes of pink flowers.

A. vaginalis (Linn.) DC.
Mt. Abu to Abu Road, 9th mile, *Rolla* 66707. Creeping to sub-erect herb in pink red flowers. Common.

***Clitoria biflora** Dalz.
Mt. Abu to Abu road, 9th mile, *Rolla* 66709. 60-90 cms. tall climbing herb in 2.5 cms. long pods. Rare.

***Erythrina stricta** Roxb.
Achalgarh Road, *Kanodia* 62215. Small tree in fruits. Quite frequent.

Indigofera linifolia Retz.
On the way to Guru Sikhar, *Kanodia* 62230. A small prostrate 15-25 cms. herb in pink flowers and minute single seeded pods.

***I. subulata** Vahl
Mt. Abu to Abu Road, 9th mile, *Rolla* 66704. An undershrub in pink flowers. Leaflets 5, hairy underneath. Branches angular and white. Frequent on hill slopes.

I. tinctoria Linn.
After 9th mile from Mt. Abu, *Rolla* 66688. An undershrub. Pods 2.50-3.75 cms. long.

***Medicago denticulata** Willd.
Mt. Abu roadside, *Jain* 62095. 30 cms. tall herb in yellow flowers. Rare.

CUCURBITACEAE

Melothria maderaspatana (Linn.) Cogn.
Near Kodra tank, *Rolla* 66522. A large climber in bright-red, minute fruits and yellow flowers.

RUBIACEAE

***Oldenlandia herbacea** (Linn.) Roxb.
On the way to Kodra Water Works, *Rolla* 66606. Minute 10-15 cms., erect herb with solitary, peduncled flowers. Rare.

COMPOSITAE

***Centipeda minima** (Linn.) A. Br. & Aschers
Nala near Achalgarh, *Kanodia* 62204. 10-15 cms. long, prostrate, spreading herb in yellow heads on muddy, damp soil. Common here.

Erigeron canadensis Linn.
Traver tal road, *Puri* 56572. 60-90 cms. tall herb. Common.

Gnaphalium pulvinatum Del.
Near Achalgarh (1.21 km.), *Kanodia* 62205. 10-15 cms. long, prostrate, woody herb in a dried up pond.

Grangea maderaspatana Poir
Near Nakhi Lake, *Kanodia* 62187. Small herb 15-30 cms. in yellow heads, leaves deeply serrate.

***Vicoa cernua** Dalz.
Near Gomukh, *Jain* 48181. Small herb 30 cms. in moist places. Flowers yellow.

SCROPHULARIACEAE

Vandellia nummularifolia D. Don
Near Kodra Water Works, *Rolla* 66603. Minute herb 15 cms. in moist places. Flowers purple. Rare.

ACANTHACEAE

***Hemigraphis elegans** Nees var. *crenata* C. B. Clarke
Mt. Abu (1.21 k.m.), *Jain* 45198. Up to 30 cms. tall herb in light violet flowers.

***Hemigraphis hirta** T. Anders.
Near Nakhi Lake, *Kanodia* 62182; near Shamsan, *Jain* 62142. 15-20 cms. long, prostrate, hairy herb in moist places. Flowers purple.

Rungia pectinata (Linn.) Nees
On the way to Gomukh, *Jain* 62128. Small herb in crevices of rocks. Flowers purple.

LABIATAE

***Leucas biflora** R. Br. var. *procumbens* (Desf.) Gamble
Andra point, *Puri* 56771. Up to 30 cms. high herb, hanging from the rock crevices. Flowers white.

***Pogostemon plectranthoides** Desf.
Near Gomukh, *Jain* 62110. 90 cms. tall shrub in red flowers.

AMARANTHACEAE

Aerva lanata (Linn.) Juss.
Mt. Abu to Abu Road, *Rolla* 66681. 90-120 cms. tall herb in white flowers on the hill slopes.

***Alternanthera pungens** H. B. & K.
Dilwara Road side, *Rolla* 66642. A prostrate spiny herb on the roadside. Common.

***Telanthera ficoidea** Miq. *Alternanthera amabilis* Hort. ex Link.
On the way to Devalia tank, *Rolla* 66616. Small suberect herb in white, subglobose, pink heads on open grounds. Frequent.

CHENOPODIACEAE

Chenopodium album Linn.
Dilwara Road side field, *Jain* 62167. 30-60 cms. tall, fleshy herb. Common.

POLYGONACEAE

Rumex crispus Linn.
Mt. Abu Road side Nala, *Kanodia* 62196; *Jain* 62092. 90 cms. tall, perennial, glabrous herb near a dirty nala. Leaves with wavy margins. New record for India. A detailed note will be published elsewhere.

EUPHORBIACEAE

***Bridelia squamosa** Gehrm.
Mt. Abu to Abu Road, 9th mile, *Rolla* 66687. 9.15 m. tall tree in greenish yellow flowers.

Euphorbia thymifolia Linn.
Andra Road, *Tatake* 46454. Small spreading herb. Leaves longer than broad. Common.

Phyllanthus niruri Linn.
Mt. Abu to Abu Road, 9th mile, *Rolla* 66705. Up to 30 sms. tall herb in minute green fruits.

***P. simplex** Retz.
Dilwara Road side, *Rolla* 66626. 30-60 cms. tall woody herb in green fruits.

URTICACEAE

Ficus virens Ait. var. *virens*; Corner in Gard. Bull. Singapore. 17: 376, 1960; *F. infectoria* Willd. sensu Roxb. var. *wightiana* King; *F. infectoria* Willd. sensu Roxb. var. *lambertiana* King; *F. lucescens* Bl. var. *lambertiana* (Miq.) Santapau.
Mt. Abu to Abu Road, 9th Mile, *Rolla* 66701. 6-9 m. tall tree on exposed rocks. Figs pedunculate.

COMMELINACEAE

***Commelina kurzii** Clarke
On the way to Devalia tank, *Rolla* 66661. A large climbing herb with pink flowers. Leaves up to 15 cms. long.

***Murdannia nudiflora** (Linn.) Brenan.
On the way to Devalia tank, *Rolla* 66652. Up to 45 cms. tall herb on the edge of a drying up pond.

CYPERACEAE

***Fimbristylis schoenoides** Vahl
On the way to Devalia tank, *Rolla* 66625. 15 cms. tall sedge with minute, simple, terminal heads.

ACKNOWLEDGMENTS

The authors are highly indebted to Shri R. S. Rao, Regional Botanist, Botanical Survey of India, Poona for all the guidance and encouragement during the course of the work, to Dr. A. S. Rao and Shri S. K. Jain for helpful suggestions and to Dr. S. K. Mukerjee for confirming some of the identifications.

LITERATURE CITED

1. RAIZADA, M. B.—A botanical visit to Mt. Abu. *Indian For.* 80: 207-215, 1954.
2. JAIN, S. K.—Materials for the flora of Mt. Abu in Rajasthan. *Indian For.* 88: 53-62, 1962.
3. CHAVAN, A. R. AND S. D. SABNIS—Cyperaceae from Mt. Abu. *J. Indian Bot. Soc.* 39: 27-29, 1960.
4. BAPNA, K. P.—A note on the Hepatic Flora of Mt. Abu. *Curr. Sci.* 27: 259-260, 1958.
5. BIR, S. S. AND S. C. VERMA—Ferns of Mt. Abu. *Proc. Indian Sci. Cong.* Pt. III: 270-271, 1961.